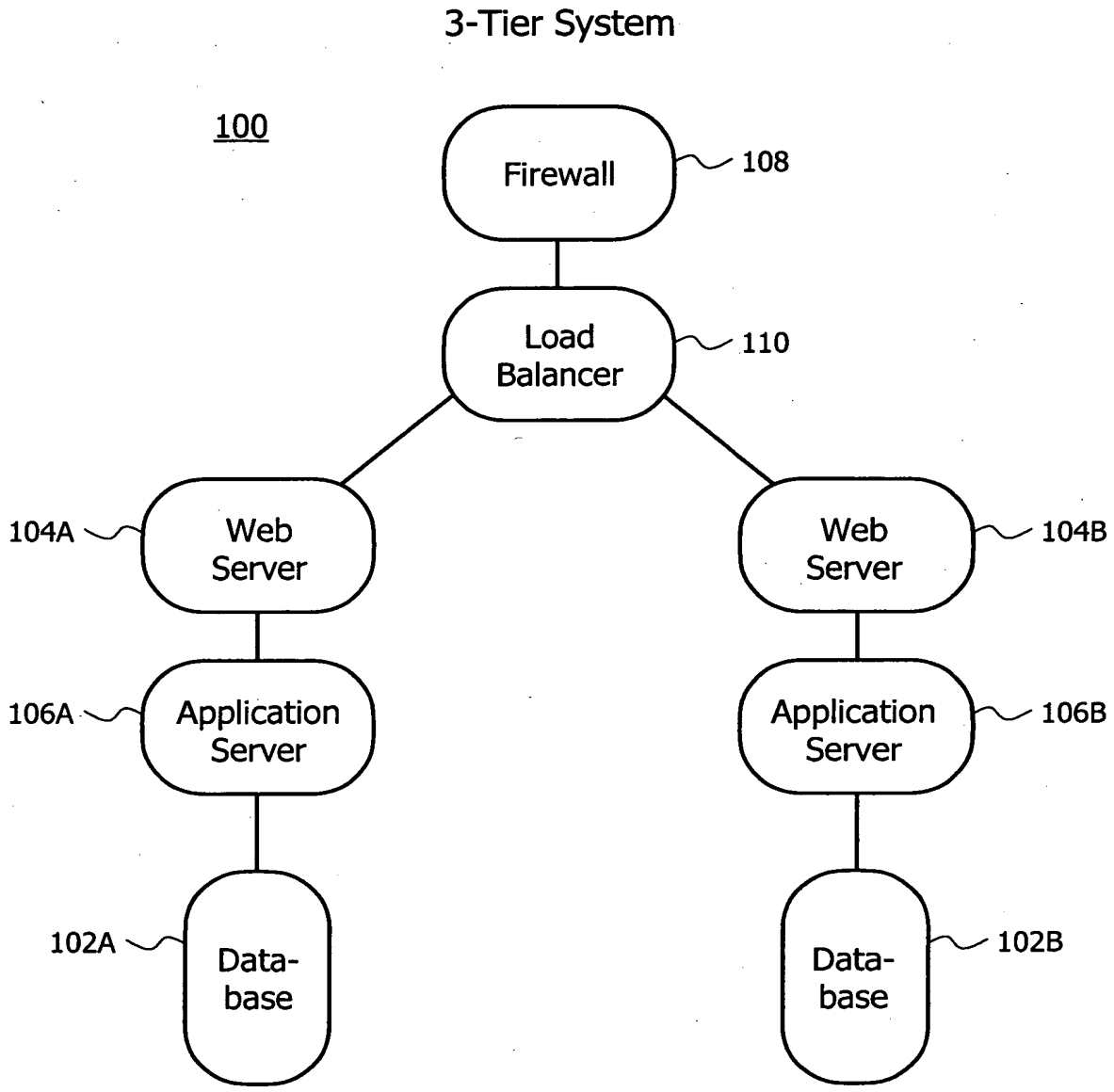

3-Tier System
100
Firewall
108
Load Balancer
110
104A
Web Server
Web Server
104B
106A
Application Server
Application Server
106B
102A
Data-base
Data-base
102B

FIG. 1

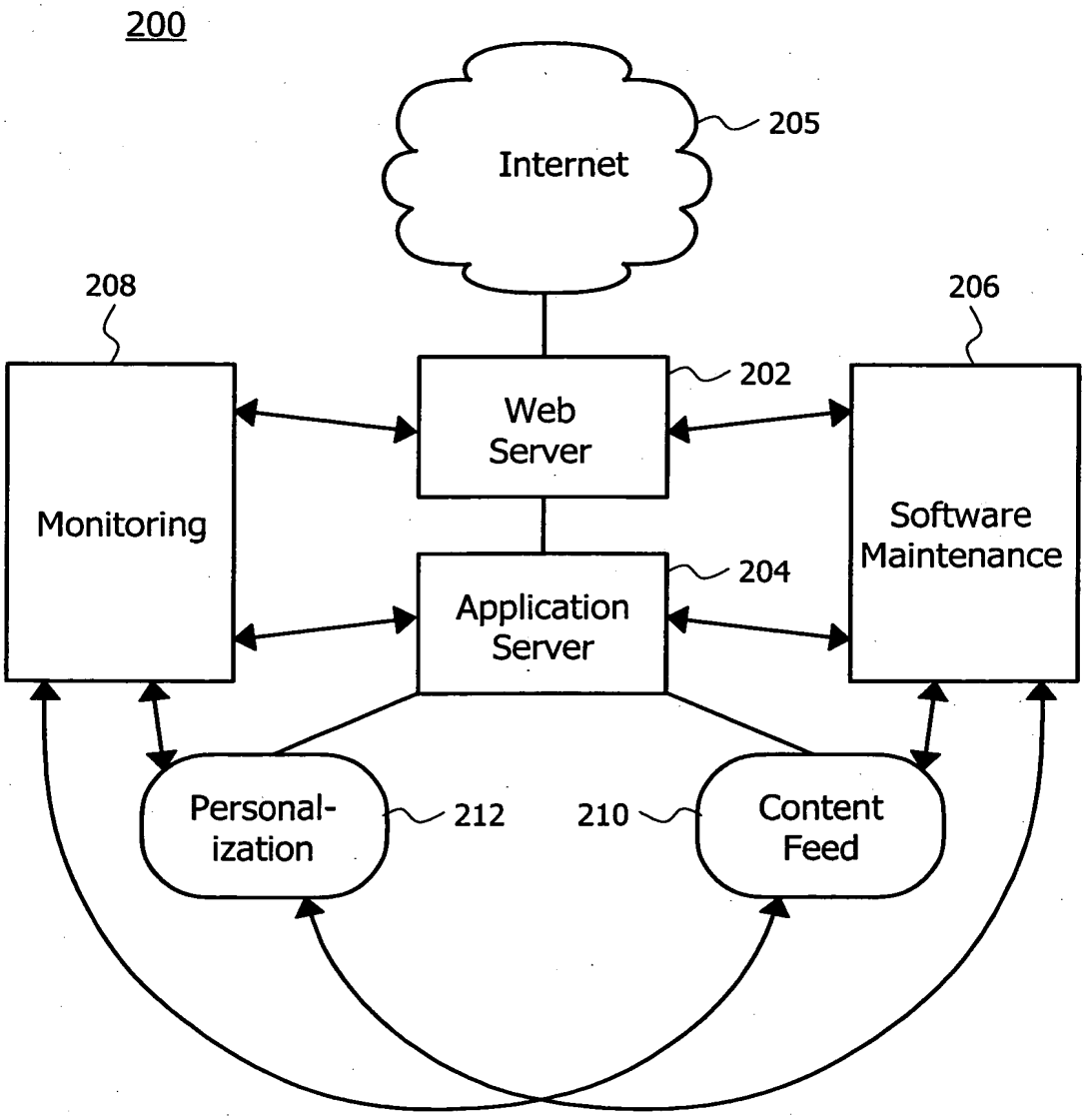

200
Internet
205
208
206
Web Server
202
Monitoring
Software Maintenance
Application Server
204
Personal-ization
212
210
Content Feed

FIG. 2

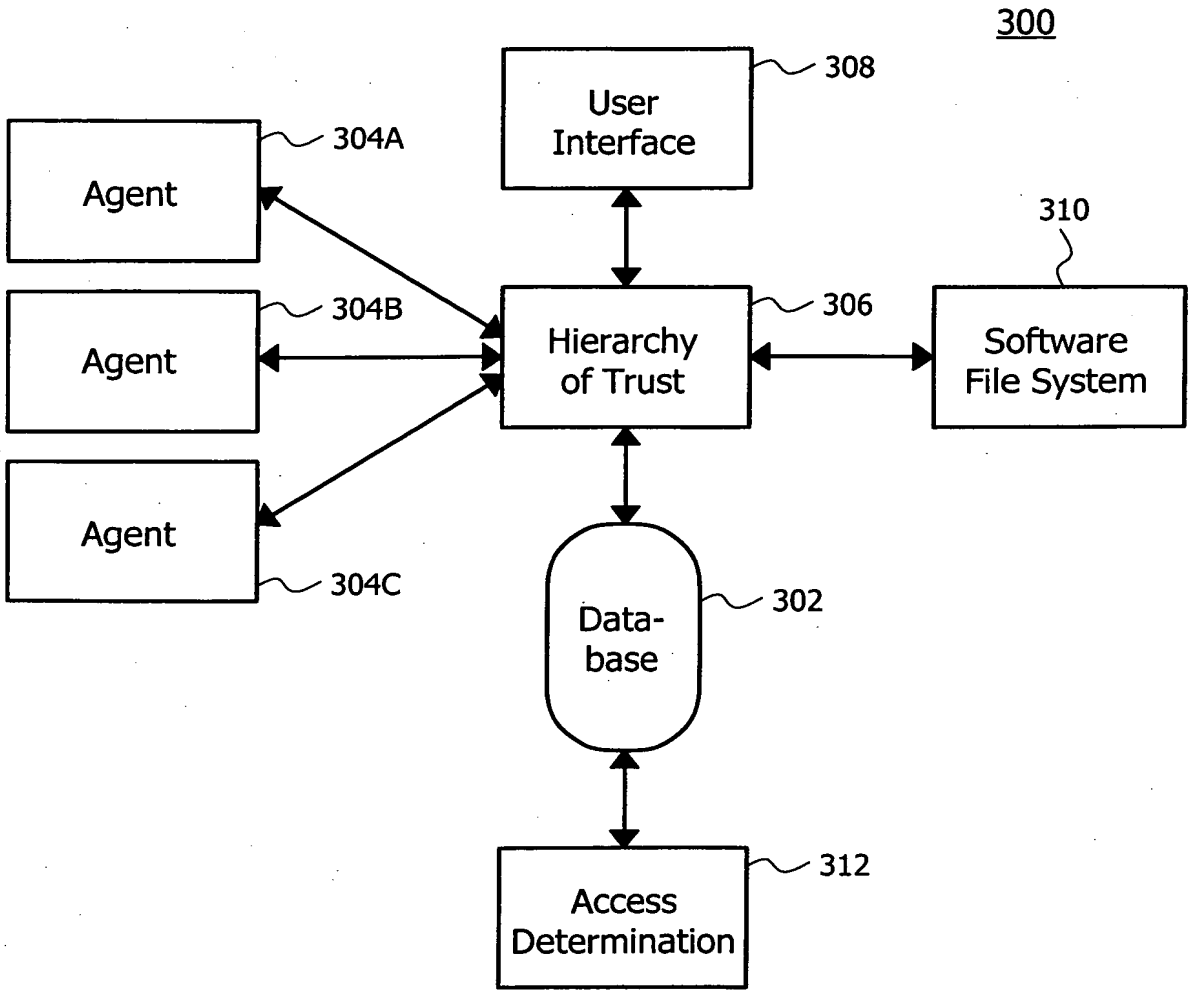

300
User Interface
308
Agent
304A
Agent
304B
Agent
304C
Hierarchy of Trust
306
310
Software File System
Data-base
302
Access Determination
312

FIG. 3

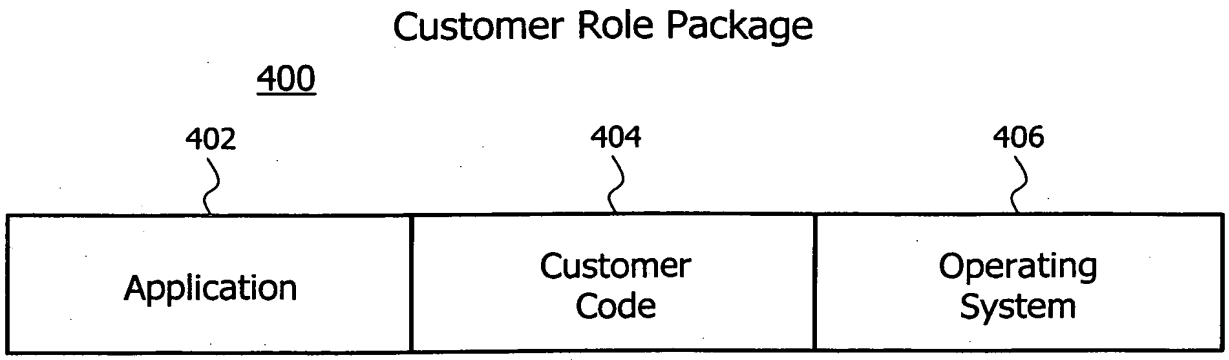

Customer Role Package
400
402
404
406
Application
Customer Code
Operating System

FIG. 4

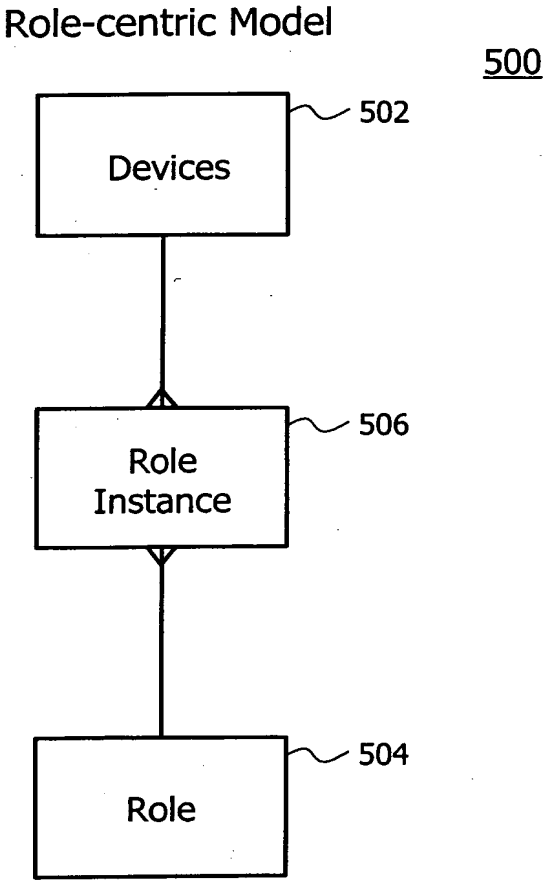

Role-centric Model
500
Devices
502
Role Instance
506
Role
504

FIG. 5

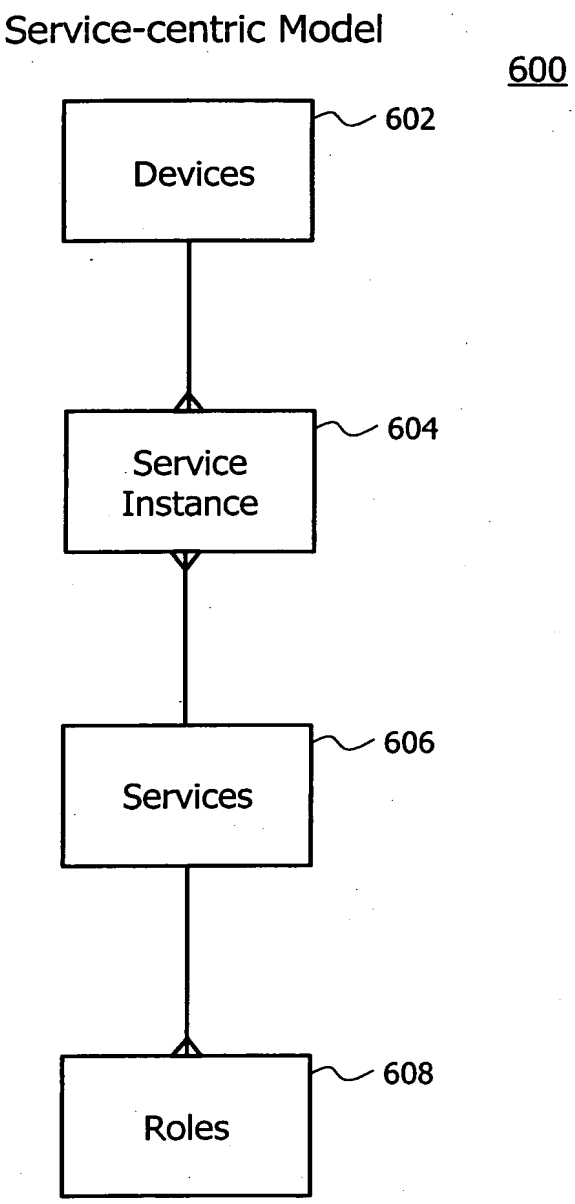

Service-centric Model
600
Devices
602
Service Instance
604
Services
606
Roles
608

FIG. 6

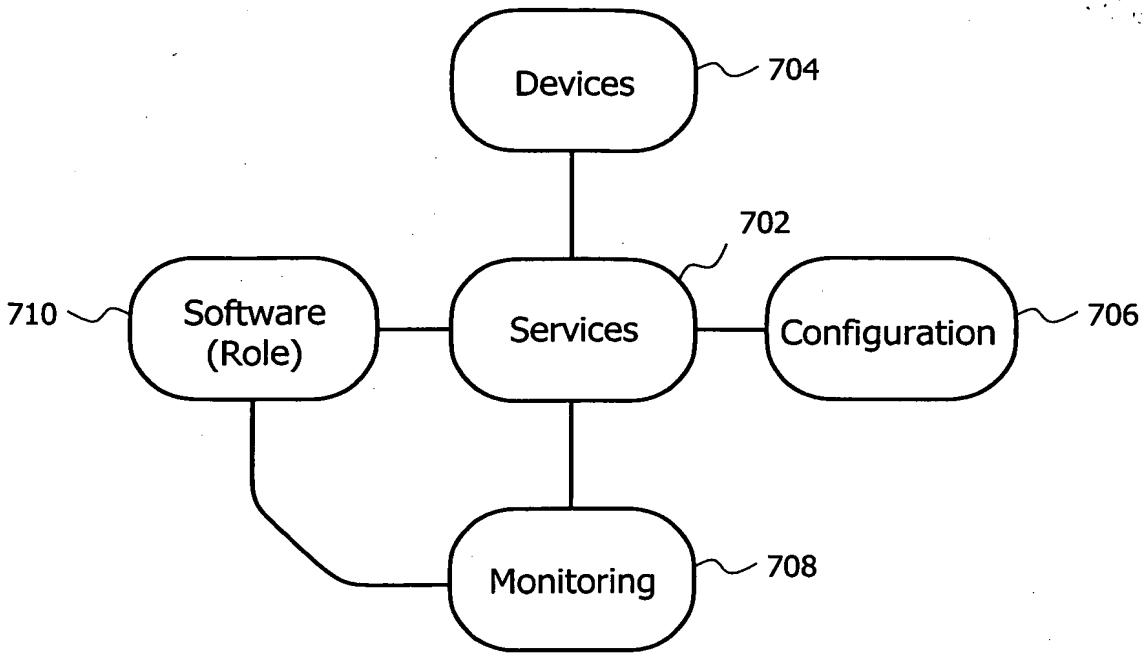

Devices
704
702
710
Software (Role)
Services
Configuration
706
Monitoring
708

FIG. 7

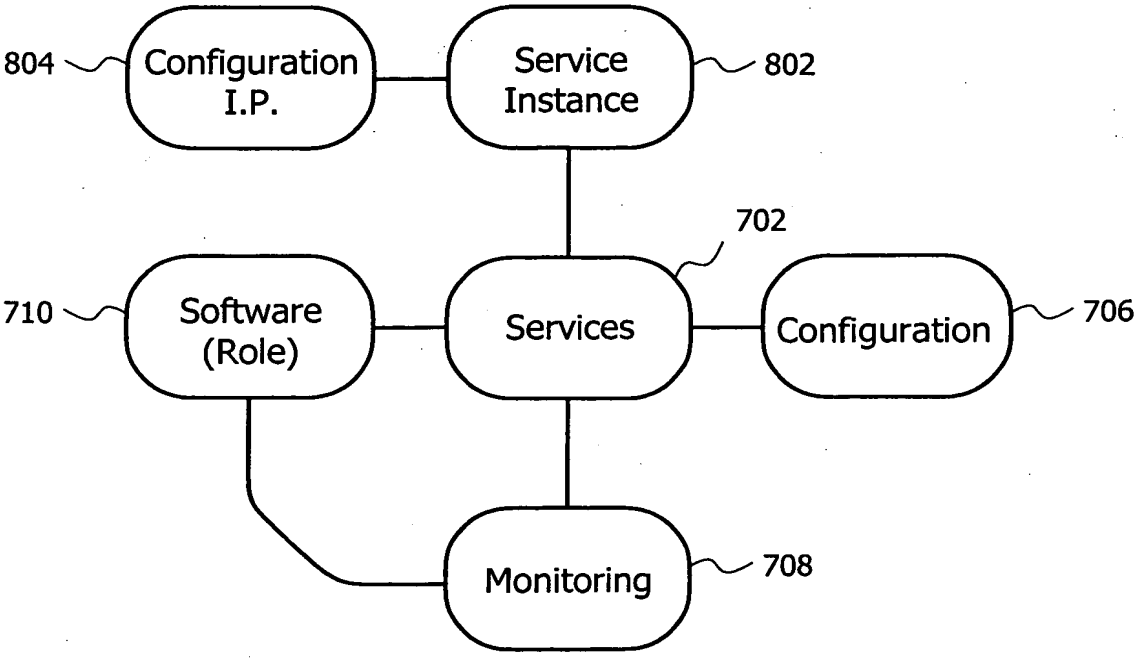

804
Configuration I.P.
Service Instance
802
702
710
Software (Role)
Services
Configuration
706
Monitoring
708

FIG. 8

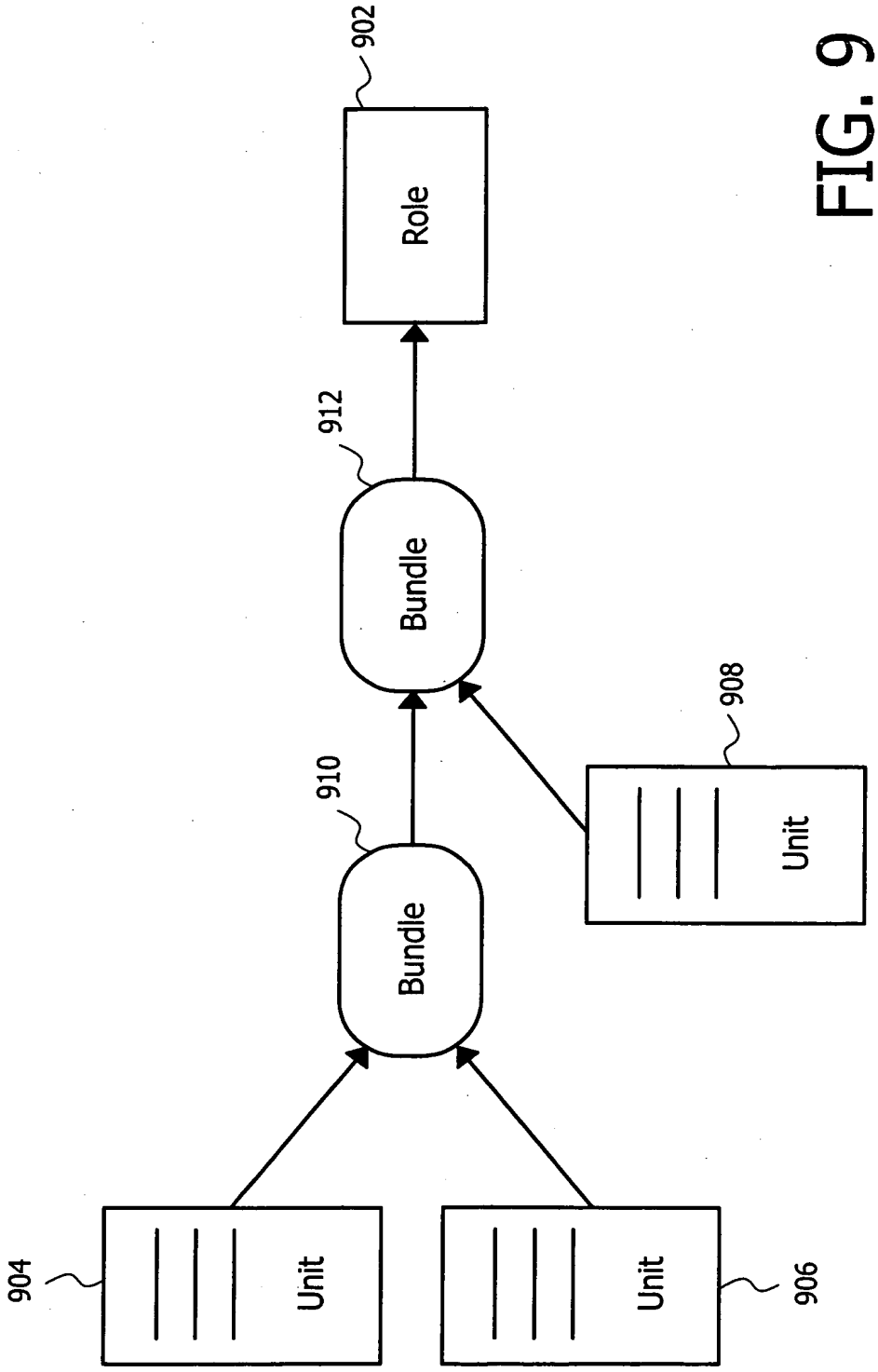


FIG. 9

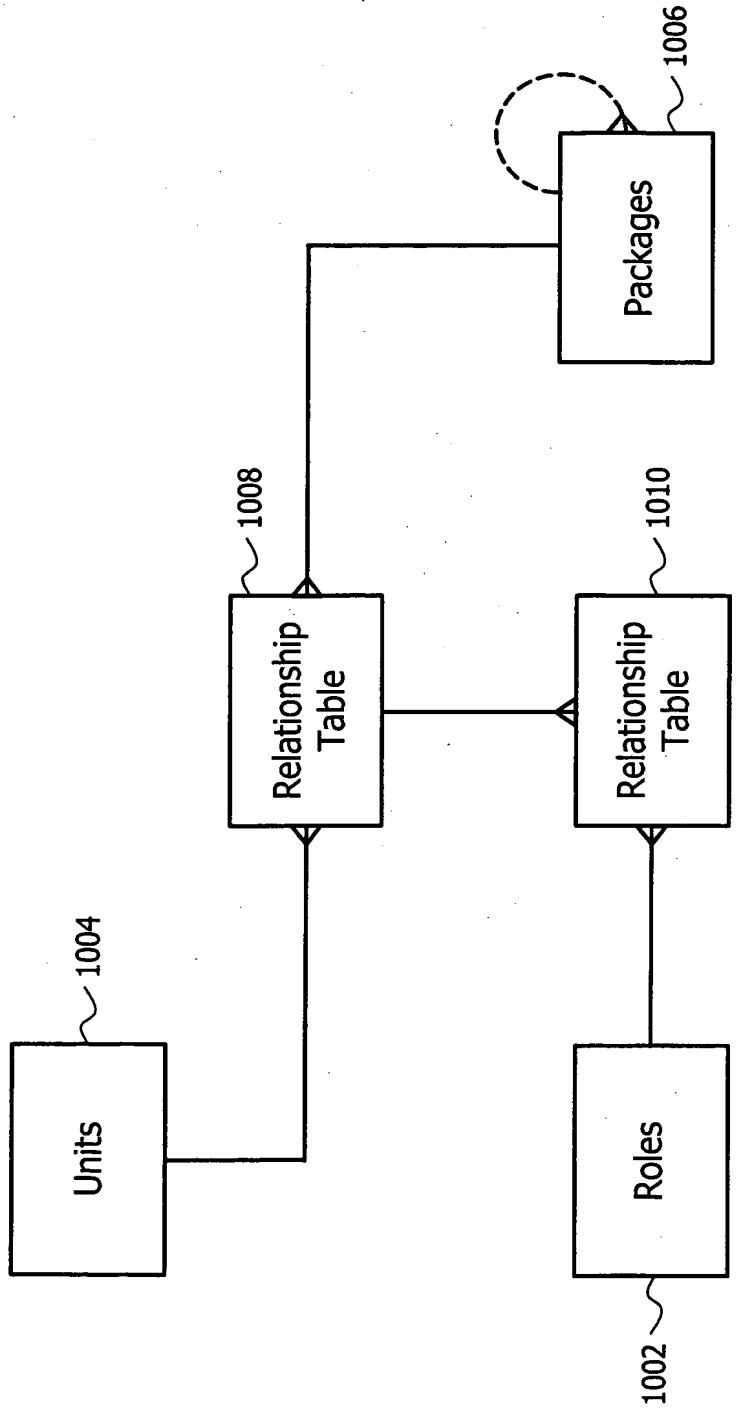
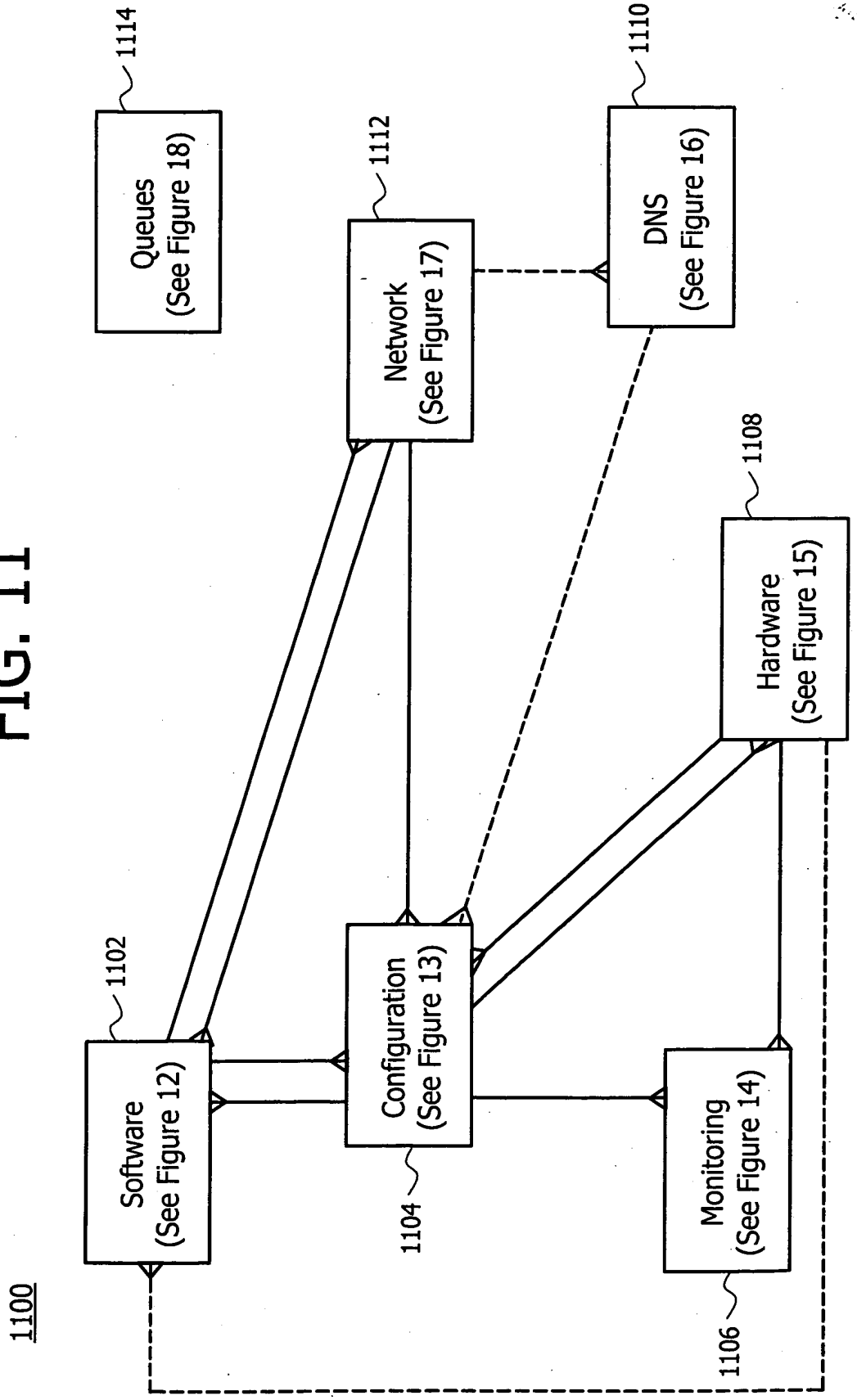

1006
Packages
1008
Relationship Table
1010
Relationship Table
1004
Units
Roles
1002

FIG. 10

FIG. 11


1100
Software (See Figure 12)
1102
Configuration (See Figure 13)
1104
Monitoring (See Figure 14)
1106
Hardware (See Figure 15)
1108
DNS (See Figure 16)
1110
Network (See Figure 17)
1112
Queues (See Figure 18)
1114

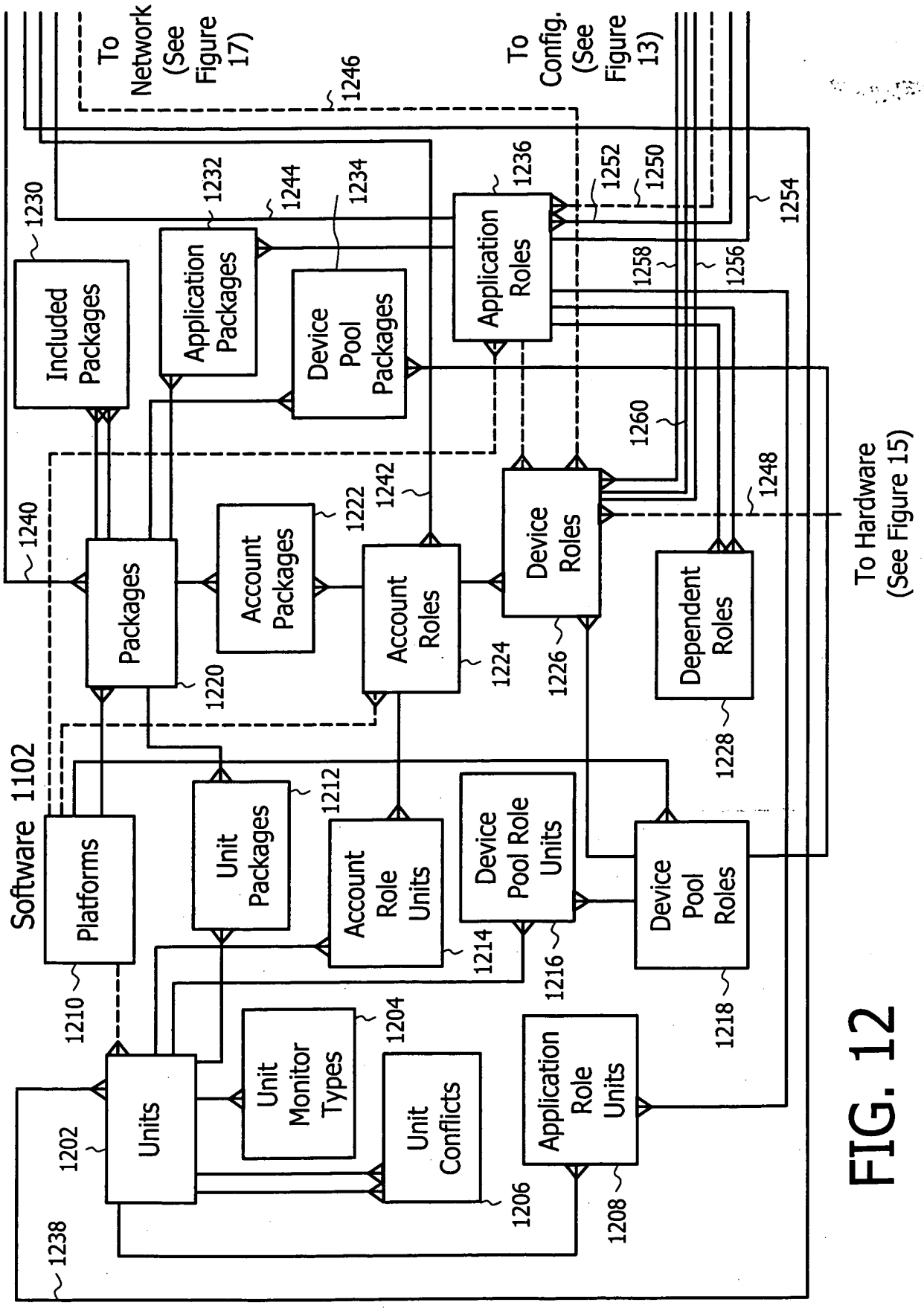

To Network (See Figure 17)
To Config. (See Figure 13)
To Hardware (See Figure 15)
Software 1102
Included Packages
Application Packages
Device Pool Packages
Application Roles
Packages
Account Packages
Account Roles
Device Roles
Dependent Roles
Platforms
Unit Packages
Account Role Units
Device Pool Role Units
Device Pool Roles
Units
Unit Monitor Types
Unit Conflicts
Application Role Units
1202
1204
1206
1208
1210
1212
1214
1216
1218
1220
1222
1224
1226
1228
1230
1232
1234
1236
1238
1240
1242
1244
1246
1248
1250
1252
1254
1256
1258
1260

FIG. 12

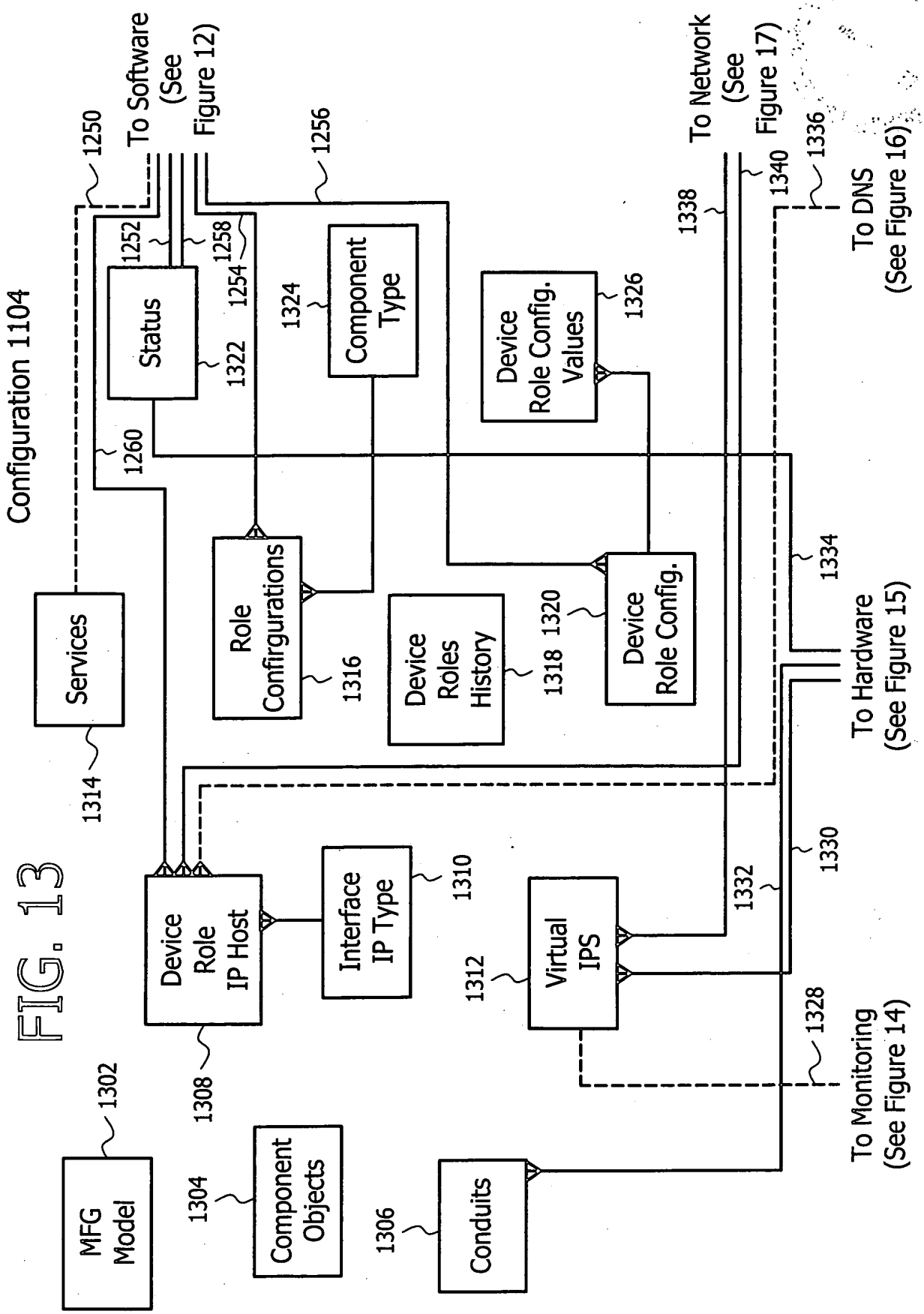

Configuration 1104
1250
To Software (See Figure 12)
1256
To Network (See Figure 17)
1336
1340
1338
To DNS (See Figure 16)
1252
1258
1254
Status
1322
1324
Component Type
Device Role Config. Values
1326
1260
Role Confirgurations
1316
Device Roles History
1318
1320
Device Role Config.
1334
Services
1314
To Hardware (See Figure 15)
Device Role IP Host
1308
Interface IP Type
1310
1312
Virtual IPS
1332
1330
1328
To Monitoring (See Figure 14)
1302
MFG Model
1304
Component Objects
1306
Conduits

FIG. 13

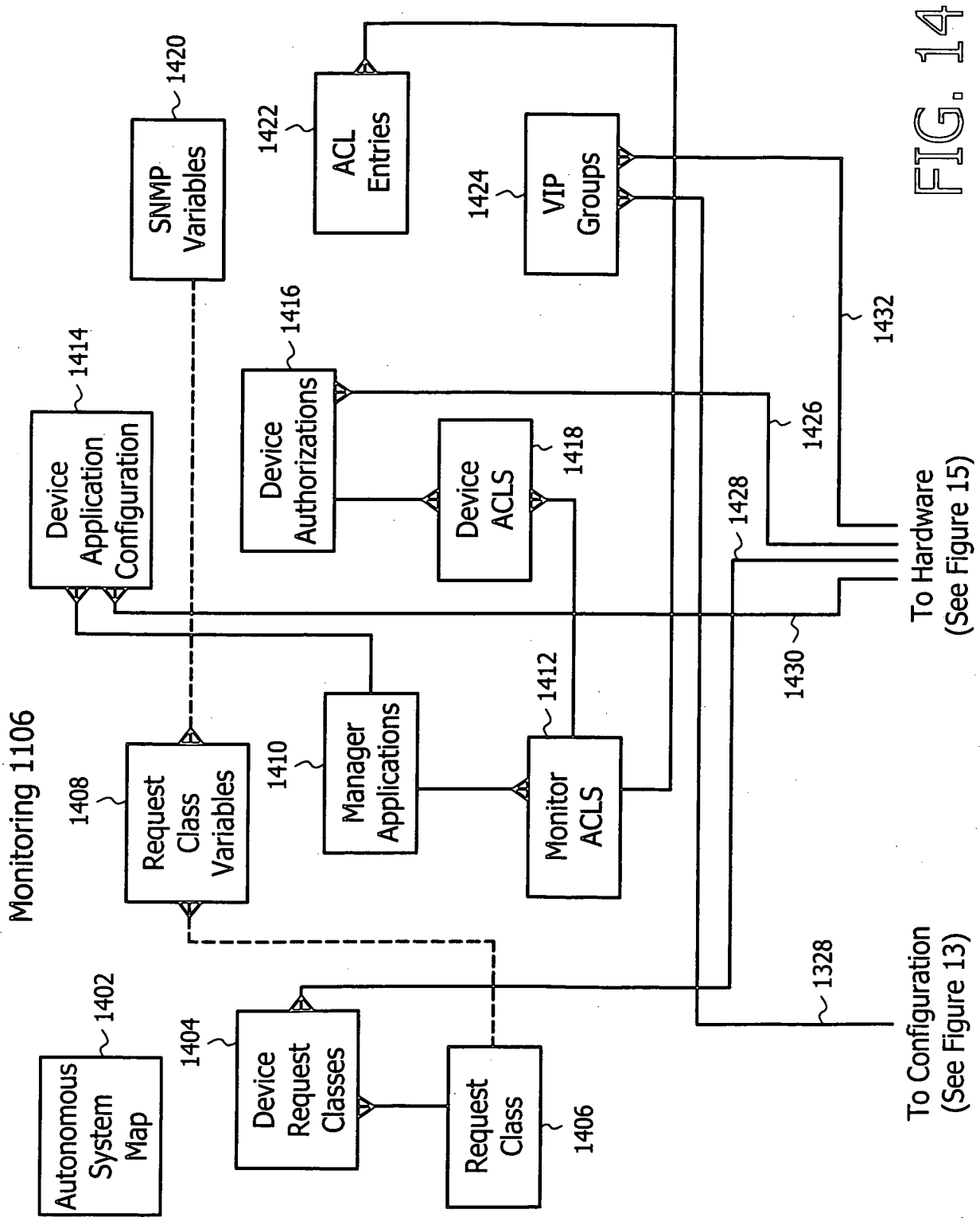
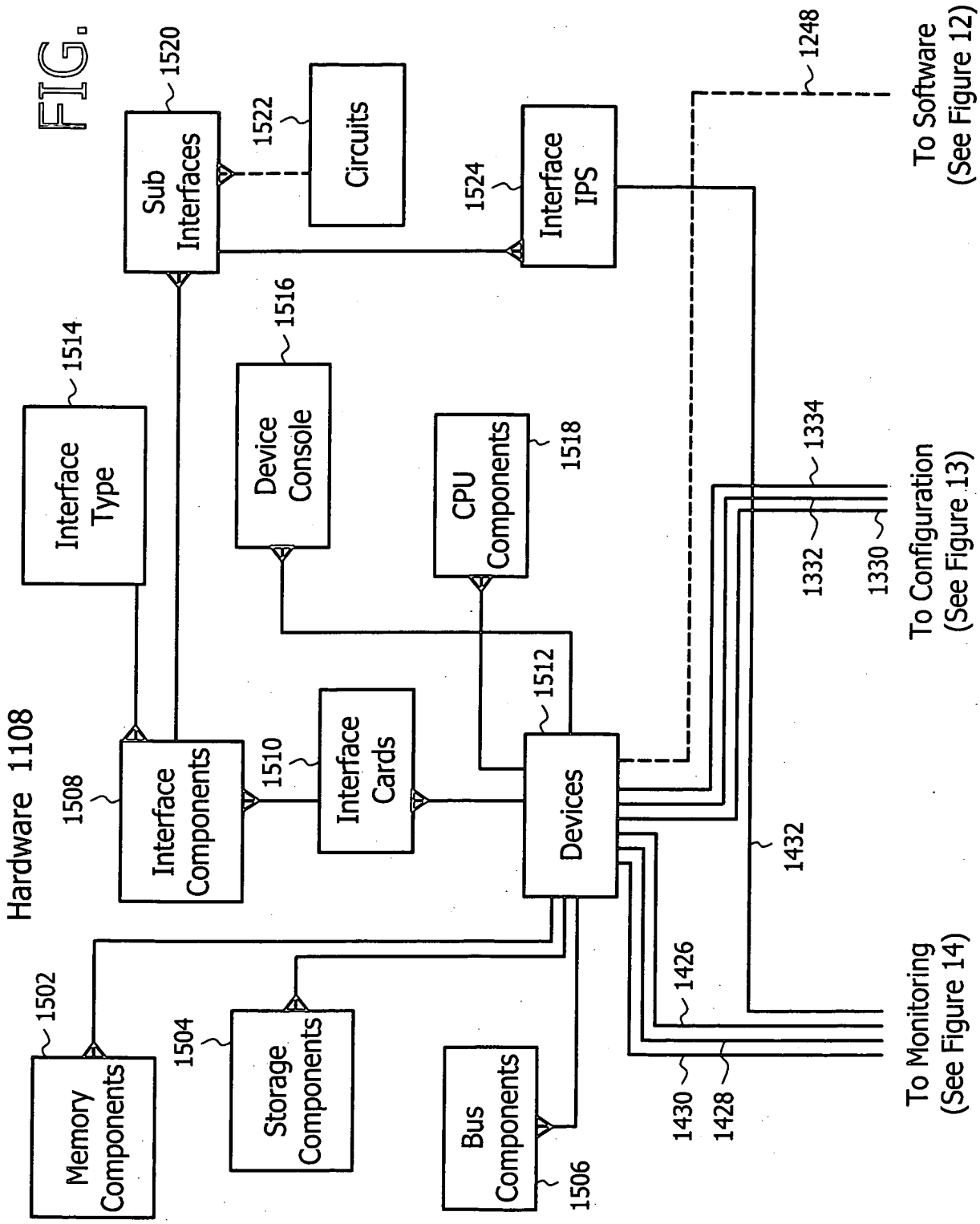

Monitoring 1106
Autonomous System Map
1402
Device Request Classes
1404
Request Class
1406
Request Class Variables
1408
Manager Applications
1410
Monitor ACLS
1412
Device Application Configuration
1414
Device Authorizations
1416
Device ACLS
1418
SNMP Variables
1420
ACL Entries
1422
VIP Groups
1424
1426
1428
1430
1432
1328
To Configuration (See Figure 13)
To Hardware (See Figure 15)

FIG. 14

FIG. 15


Hardware 1108
Memory Components
1502
Storage Components
1504
Bus Components
1506
Interface Components
1508
Interface Cards
1510
Devices
1512
Interface Type
1514
Device Console
1516
CPU Components
1518
Sub Interfaces
1520
Circuits
1522
Interface IPS
1524
1248
To Software (See Figure 12)
1334
1332
1330
To Configuration (See Figure 13)
1432
1426
1430
1428
To Monitoring (See Figure 14)

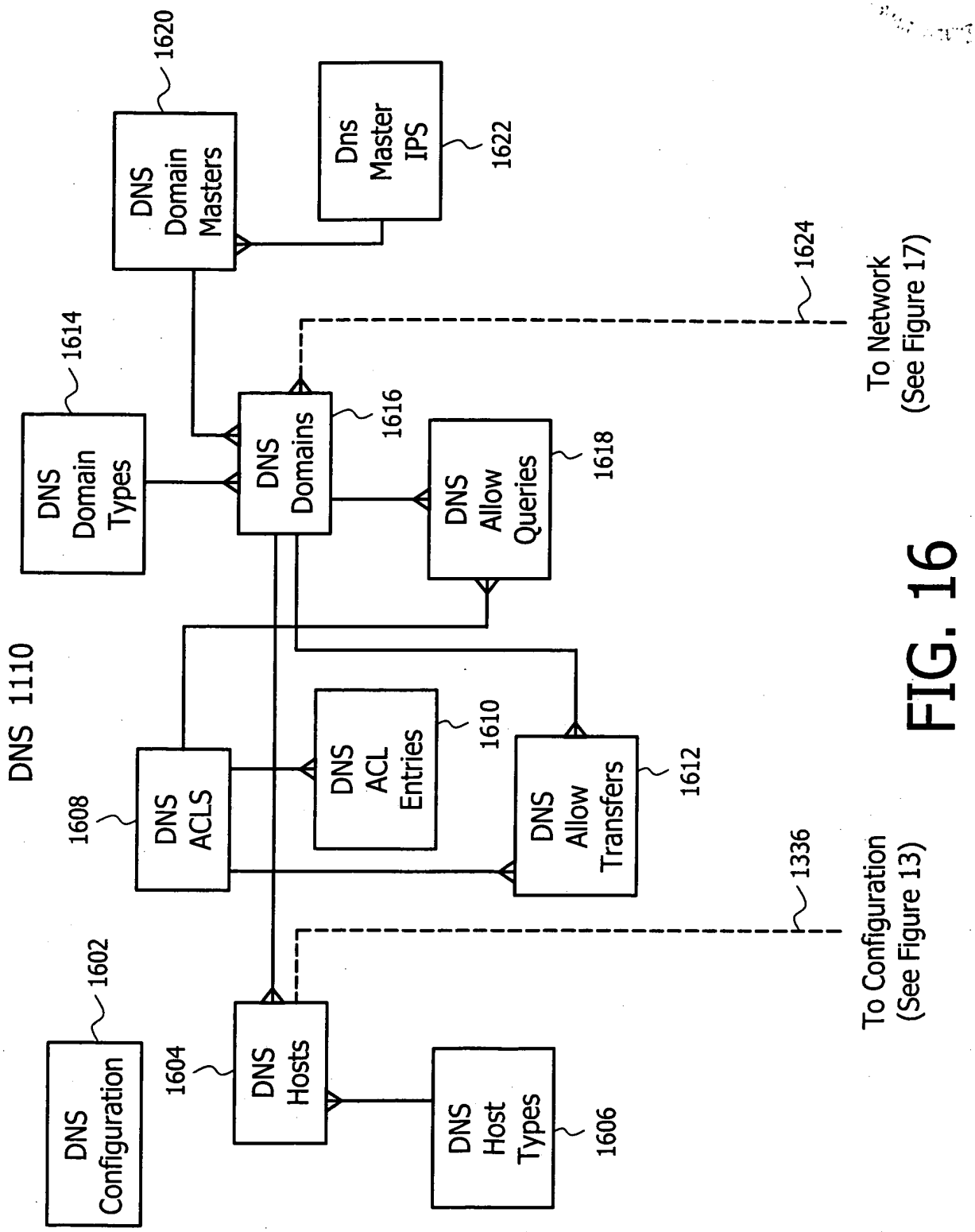
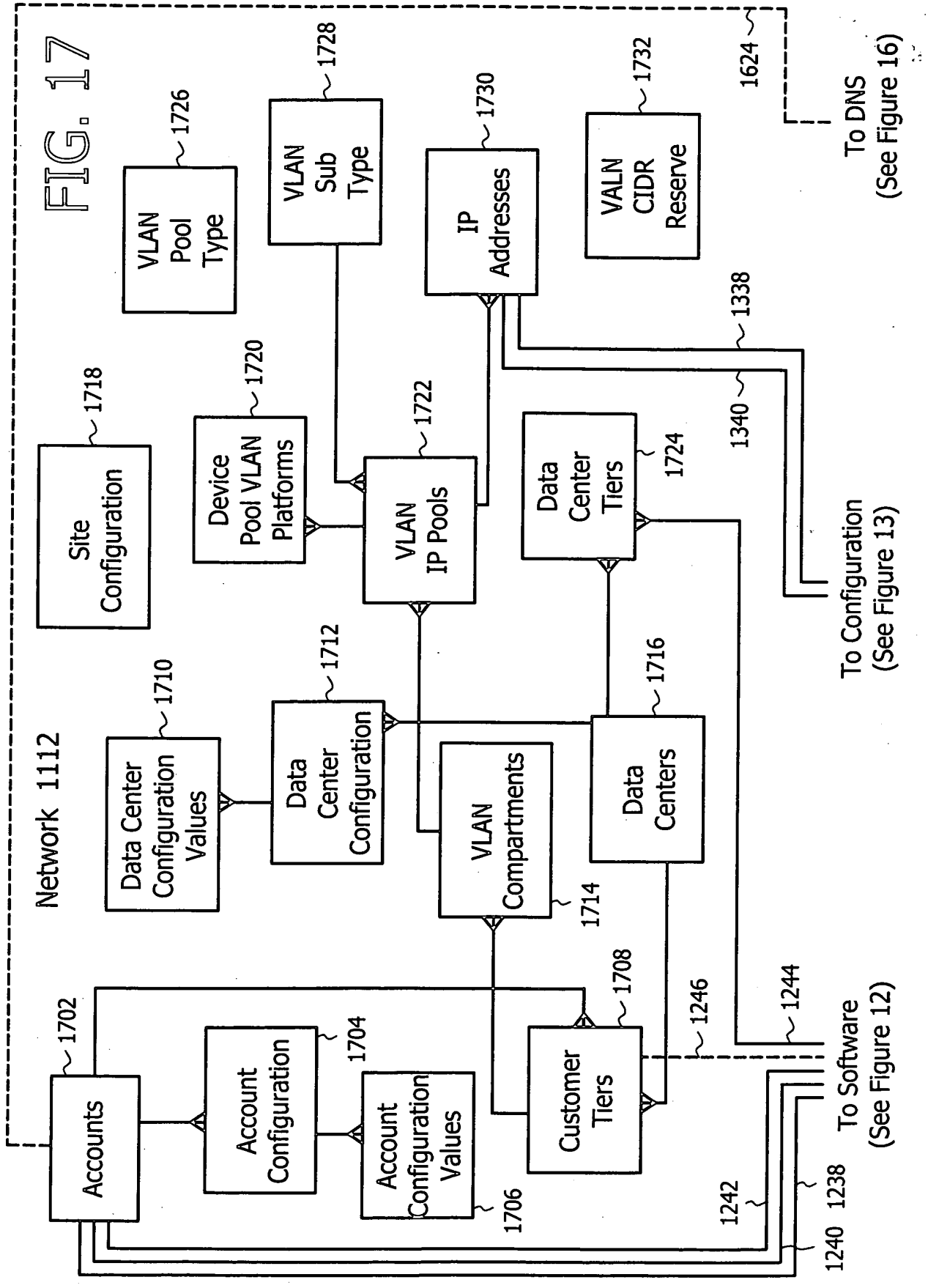

DNS 1110
DNS Domain Masters
1620
Dns Master IPS
1622
1624
To Network (See Figure 17)
DNS Domain Types
1614
DNS Domains
1616
DNS Allow Queries
1618
DNS ACLS
1608
DNS ACL Entries
1610
DNS Allow Transfers
1612
1336
To Configuration (See Figure 13)
DNS Configuration
1602
DNS Hosts
1604
DNS Host Types
1606

FIG. 16

FIG. 17


Network 1112
Accounts
1702
Account Configuration
1704
Account Configuration Values
1706
Data Center Configuration Values
1710
Data Center Configuration
1712
Site Configuration
1718
Device Pool VLAN Platforms
1720
VLAN IP Pools
1722
VLAN Pool Type
1726
VLAN Sub Type
1728
VLAN Compartments
1714
Customer Tiers
1708
Data Centers
1716
Data Center Tiers
1724
IP Addresses
1730
VALN CIDR Reserve
1732
1624
To DNS (See Figure 16)
1338
1340
To Configuration (See Figure 13)
1246
1244
To Software (See Figure 12)
1242
1238
1240

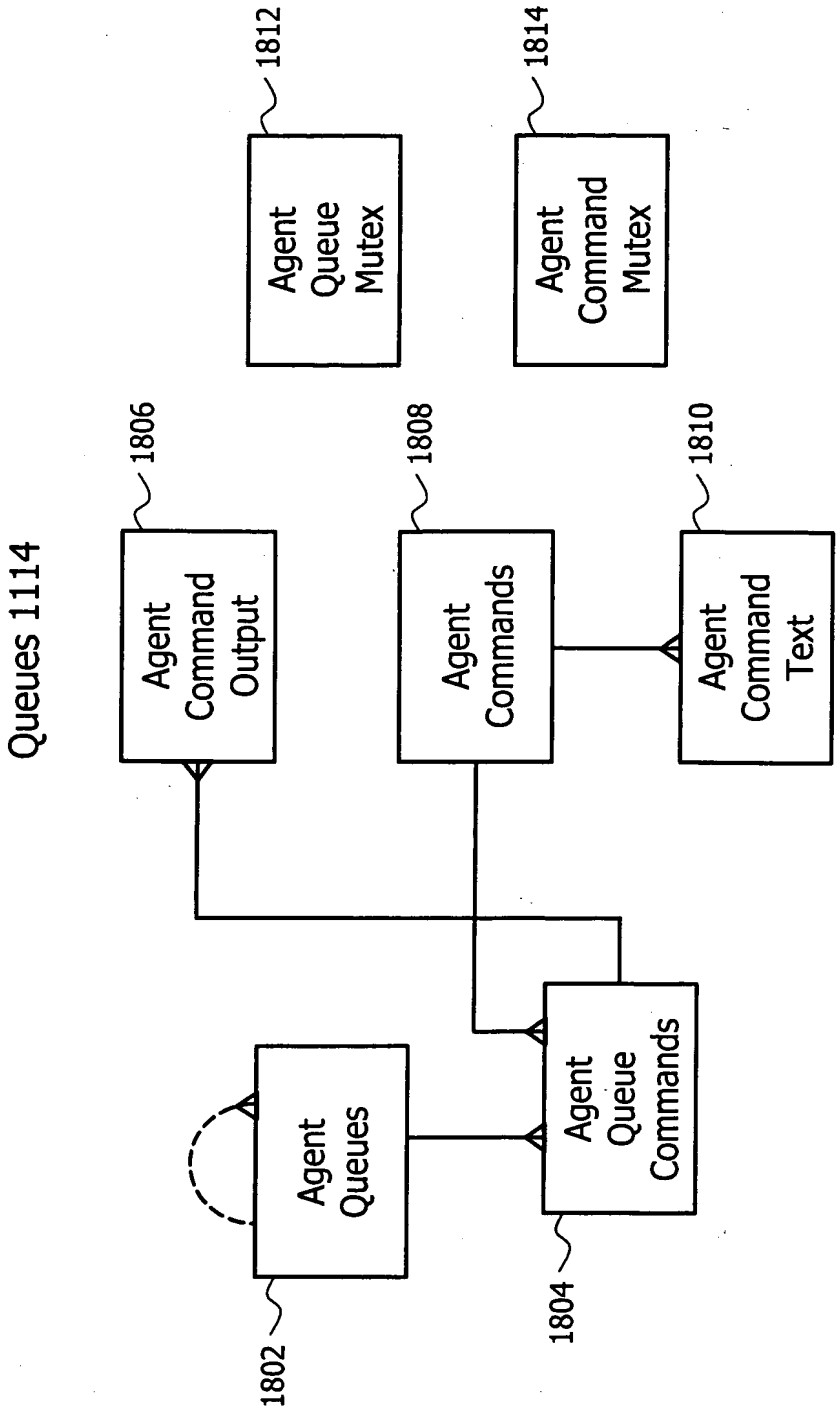

Queues 1114
Agent Queues
Agent Queue Commands
Agent Command Output
Agent Commands
Agent Command Text
Agent Queue Mutex
Agent Command Mutex
1802
1804
1806
1808
1810
1812
1814

FIG. 18